

CGGAGGGGAGGGGGGAAGAGGAGCGCAGGGTGAGAGTGAGCCGCAGGCTTCGGGAGGCGAGGGGGCGGGGGGAGCAGC

FIG. 1A

## 7853-067-999 (Sheet 2 of 9)

H N L A V H R M I H T G E K P L Q C E I 404  
 CAC AAT CTG GCA GTG CAC CGG ATG ATT CAC ACT GGC GAG AAG CCA TTA CAA TGT GAG ATC 1212  
 C G F T C R Q K A S L N W H M K K H D A 424  
 TGT GGA TTT ACT TGT CGA CAA AAG GCA TCT CTT AAT TGG CAC ATG AAG AAA CAT GAT GCA 1272  
 D S F Y Q F S C N I C G K K F E K K D S 444  
 GAC TCC TTC TAC CAG TTT TCT TGC AAT ATC TGT GGC AAA AAA TTT GAG AAG AAG GAC AGC 1332  
 V V A H K A K S H P E V L I A E A L A A 464  
 GTA GTG GCA CAC AAG GCA AAA AGC CAC CCT GAG GTG CTG ATT GCA GAA GCT CTG GCT GCC 1392  
 N A G A L I T S T D I L G T N P E S L T 484  
 AAT GCA GGC GCC CTC ATC ACC AGC ACA GAT ATC TTG GGC ACT AAC CCA GAG TCC CTG ACG 1452  
 Q P S D G Q G L P L L P E P L G N S T S 504  
 CAG CCT TCA GAT GGT CAG GGT CTT CCT CTT CTT CCT GAG CCC TTG GGA AAC TCA ACC TCT 1512  
 G E C L L L E A E G M S K S Y C S G T E 524  
 GGA GAG TGC CTA CTG TTA GAA GCT GAA GGG ATG TCA AAG TCA TAC TGC AGT GGG ACG GAA 1572  
 R V S L M A D G K I F V G S G S S G G T 544  
 CGG GTG AGC CTG ATG GCT GAT GGG AAG ATC TTT GTG GGA AGC GGC AGC AGT GGA GGC ACT 1632  
 E G L V M N S D I L G A T T E V L I E D 564  
 GAA GGG CTG GTT ATG AAC TCA GAT ATA CTC GGT GCT ACC ACA GAG GTT CTG ATT GAA GAT 1692  
 S D S A G P \* 570  
 TCA GAC TCT GCC GGA CCT TAG TGGACAGGAAGACTTGGGGCATGGGACAGCTCAGACTTTGTATTAAAAAGT 1761  
 TAAAAAGGACAAAAAAAAAAAAAAAAAAAAA 1791

FIG. 1B

06799910-021397  
 7853-067-999

GGCCCCCGATCCCGGCGGGGCGCCCCCGGGCCCCCGCGCGGCCCCGGCCTCCGGGAGACTGGCGCATGCCACGGAGCG  
CCCCTCGGGCGCGCGCGCTCCTGCGCGGGCCCCTGCTGCTGCTGCTGCGCCTGGCGCTGCTGCCCCAACTCGGCGCC

FIG. 2A

G F S I K A F D Y E K A Y S L Q R P N D	382
GGT TTC TCC ATC AAG GCT TTC GAC TAC GAG AAG GCG TAC AGC CTG CAG CGG CCC AAT GAC	1146
H E F M Q Q P W T G F T V Q I S F V K G	402
CAC GAG TTT ATG CAG CAG CCG TGG ACG GGC TTT ACC GTG CAG ATC AGC TTT GTG AAG GGC	1206
W G Q C Y T R Q F I S S C P C W L E V I	422
TGG GGT CAG TGC TAC ACC CGC CAG TTC ATC AGC AGC TGC CCG TGC TGG CTA GAG GTC ATC	1266
F N S R *	426
TTC AAC AGC CGG TAG CCGGTGCGGAGGGGACAGAGCGTGAGCTGAGCAGGCCACACTTCAAACACTTTTGCT	1278

GCTAATATTTTCTCCTGAGTGCTTGCTTTTCATGCAAACCTCTTTGGTCTGTTTTTTTTTTTGTGTTGTTGGTTGGTTTCT  
TCTTCTCGTCTCGTTTGTGTTCTGTTTTGTTTCGCTCTTTGAGAAATAGCTTATGAAAAGAATTGTTGGGGGTTTTTT  
TGGAAGAAGGGGCAGGTATGATCGGCAGGACACCCCTGATAGGAAGAGGGGAAGCAGAAATCCAAGCACCACCAAACACA  
GTGTATGAAGGGGGCGGTCATCTTCACTTGTGAGGAGTGTGTGTGAGTGTGAGTGTGCGGCTGTGTGTGCACGCGT  
GTGCAGGAGCGGCAGATGGGGAGACAACTGCTCTTTGTTTTGTGTCTCTTATGGATGTCCCCAGCAGAGAGCTTTGCA  
GTCCCAAGCGGTGTCTCTCTGCCCCCTTGGACACGCTCAGTGGGGCAGAGGCAGTACCTGGGCAAGCTGGCGGCTGGGG  
TCCCAGCAGCTGCCAGGAGCAGGCTCTGTCCCCAGCTGGGAAAGCCCCCTGCCCCCTCTCTCCCTCATCAAGGACACG  
GGCCTGTCCACAGGCTTCTGAGCAGCGAGCCTGCTAGTGGCCGAACAGAACCAATTATTTTCATCCTGTCTTTATTC  
CTTCTGCCCAGCCCCCTGCCATTGTAGCGTCTTTCTTTTTTGGCCATCTGCTCCTGGATCTCCCTGAGATGGGCTTCCCA  
AGGGCTGCCGGGGCAGCCCCCTCACAGTATTGCTCACCCAGTGGCCCTCTCCCTCAGCCTCTCCCTGCGCTGCGCTGGT  
GACATCAGGTTTTTCCCGGACTTAGAAAAACAGCTCAGCACTGCCTGCTCCCATCTGTGTGTTAAGCTCTGCTATTAG  
GCCAGCAAGCGGGGATGTCCCTGGGAGGGAATGCTTAGCAGTCCCCCTCCCTCCAAGAAGGATTTGGTCCGTCATAAC  
CCAAGGTACCATCTAGGCTGACACCTAACTCTTCTTTCATTCTTCTACAACCTACACACTCGTATGATACTTCGACA  
CTGTTCTTAGCTCAATGAGCATGTTTAGACTTTAACATAAGCTATTTTTCTAACTACAAAGGTTTAAATGAACAAGAGA  
AGCATTCTCATTTGAAATTTAGCATTGTAGTCTTTGAGAGAGAAAGGACTCCTGAAAAAAACCTGAGATTTATTAAA  
GAAAAAATGTATTTATGTTATATATAAATATATTACTTGTAAATATAAAGACGTTTTATAAGCATCATTATTTA  
TGTATTGTGCAATGTGTATAAACAAGAAAAATAAAGAAAAGATGCACCTTTGCTTTAATATAAATGCAAAATAACAAATGC  
CAAATTAAAAAAGATAAACACAAGATTGGTGTTTTTTCTATGGGTGTATCACCTAGCTGAATGTTTTTCTAAAGGAG  
TTTATGTTCCATTAAACGATTTTTTAAATGTACACTTGAAAAA

FIG. 2B

68799910-021397

FIG. 3

FIG. 4

7853-067-999 (Sheet 7 of 9)

M	C	H	S	R	S	C	H	P	T	M	T	I	L	Q	A	P	T	P	A	20
ATG	TGT	CAC	TCT	CGC	AGC	TGC	CAC	CCG	ACC	ATG	ACC	ATC	CTG	CAG	GCC	CCG	ACC	CCG	GCC	60
P	S	T	I	P	G	P	R	R	G	S	G	P	E	I	F	T	F	D	P	40
CCC	TCC	ACC	ATC	CCG	GGA	CCC	CGG	CGG	GGC	TCC	GGT	CCT	GAG	ATC	TTC	ACC	TTC	GAC	CCT	120
L	P	E	P	A	A	A	P	A	G	R	P	S	A	S	R	G	H	R	K	60
CTC	CCG	GAG	CCC	GCA	GCG	GCC	CCT	GCC	GGG	CGC	CCC	AGC	GCC	TCT	CGC	GGG	CAC	CGA	AAG	180
R	S	R	R	V	L	Y	P	R	V	V	R	R	Q	L	P	V	E	E	P	80
CGC	AGC	CGC	AGG	GTT	CTC	TAC	CCT	CGA	GTG	GTC	CGG	CGC	CAG	CTG	CCA	GTC	GAG	GAA	CCG	240
N	P	A	K	R	L	L	F	L	L	L	T	I	V	F	C	Q	I	L	M	100
AAC	CCA	GCC	AAA	AGG	CTT	CTC	TTT	CTG	CTG	CTC	ACC	ATC	GTC	TTC	TGC	CAG	ATC	CTG	ATG	300
A	E	E	G	V	P	A	P	L	P	P	E	D	A	P	N	A	A	S	L	120
GCT	GAA	GAG	GGT	GTG	CCG	GCG	CCC	CTG	CCT	CCA	GAG	GAC	GCC	CCT	AAC	GCC	GCA	TCC	CTG	360
A	P	T	P	V	S	P	V	L	E	P	F	N	L	T	S	E	P	S	D	140
GCG	CCC	ACC	CCT	GTG	TCC	CCC	GTC	CTC	GAG	CCC	TTT	AAT	CTG	ACT	TCG	GAG	CCC	TCG	GAC	420
Y	A	L	D	L	S	T	F	L	Q	Q	H	P	A	A	F	*				157
TAC	GCT	CTG	GAC	CTC	AGC	ACT	TTC	CTC	CAG	CAA	CAC	CCG	GCC	GCC	TTC	TAA				471
CTGTGACTCCCCGCACTCCCCAAAAAGAATCCGAAAAACCACAAAGAAACACCAGGCGTACCTGGTGCGCGAGAGCGTA	550																			
TCCCCAACTGGGACTTCCGAGGCAACTTGAAGCTCAGAACACTACAGCGGAGAGGCCACCCGGTGCTTGAGGCGGGACCG	629																			
AGGCGCACAGAGACCGAGGCGCATAGAGACCGAGGCACAGCCAGCTGGGGCTAGGCCCGGTGGGAAGGAGAGCGTCGT	708																			
TAATTTATTTCTTATTGCTCCTAATTAATATTTATATGTATTTATGTACGTCTCTCTAGGTGATGGAGATGTGTACGTA	787																			
ATATTTATTTTAACTTATGCAAGGGTGTGAGATGTTCCCTCTGCTGTAAATGCAGGTCCTTGGTATTTATTTAGACTTT	866																			
GTGGGACTGGTGGGAAGCAGGACACCTGGAAGTGGCGCAAAGTAGGAGAAGAAATGGGGAGGACTCGGGTGGGGGAGGAC	945																			
GTCCCGGCTGGGATGAAGTCTGGTGGTGGGTCGTAAGTTTAGGAGGTGACTGCATCCTCCAGCATCTCAACTCCGTCTG	1024																			
TCTACTGTGTGAGACTTCGGCGGACCATTAGGAATGAGATCCGTGAGATCCTTCCATCTTCTTGAAGTCGCCTTTAGGG	1103																			
TGGCTGCGAGGTAGAGGGTTGGGGGTGGTGGGCTGTACCGAGCGACTGTGAGATCGCCTAGTATGTTCTGTGAACA	1182																			
CAAATAAAATTGATTTACTGTCAAAAAAAAAAAAAAAAAAACTCGAG	1228																			

FIG. 5

08799910-021397

FIG. 6A



TGGCGGCCCCGGCGGGAGGGGCGGGTGGG/CGCCCGGGCCACCGCCACCTGCGGGGCTCGAGAGGGGGCGATGCCCAGA 1818  
 GACACAGCCCCCAGGACAAAACCCCCAGATATCATCTACCTAGATTTAATATAAAGTTTATATATTATATGGAAAT 1897  
 ATATATTATACTTGTAAATTATGGAGTCATTTTTACAATGTAATTATTTATGTATGGTCAATGTGTGTATATGGACAAA 1976  
 ACAAGAAAGACCGCACTTTGGCTTATAATTCTTTCAATACAGATATATTTCTTTCTCTTCTCTCTCTCTCTCTCTTACT 2055  
 TTTTATATATATATATAAAGAAAATGATACAGCAGAGCTAGGTGGAAGGCTGGGTTTGGTGTATGGTTTTTGAGATA 2134  
 TTAATGCCAGACAAAAAGCTAATACCAGTCACTCGATAATAAAGTATTCCGATTATAGTTTTTTTTAACTGTCTTCT 2213  
 TTTTACAAAGAGGGGCAAGTAGGGCTTCAGCGATTCTGACCCATCATGTACCTTGAAACTTGACCTCAGTTTTCAG 2292  
 TTTTACTTTTATTGGATAAAGACAGAACAAATTGAAAAGGGAGGAAAGTCACATTTACTCTTAAGTAAACCAGAGAAAG 2371  
 TTCGTGTGTCTCTCTGCCCCATGGCTATGGGGTGTCCAGTGGATAGGGATGGGGTGGGGAAAAGGAGAATACACTGG 2450  
 CCATTATCTCTGACAAAGCTCTTCCAGTCTGATGGAGGAGGTTCATGCCCTAGCCTAGAAAGGCCAGGTCCATGACCC 2529  
 CCATCTTTGAGTTATGAGCAAGCTAAAAGAAGACACTATTTCTCACCATTTTGTGAAATGGCTGGGGAAACAAAGACT 2608  
 GAAATGGGCCTTGAGCCACCTGCTACCTTGACAGAGAACCATCTCGAGCCCCGTAGATCTTTTATAGGACCTCCACAGGC 2687  
 TATTTCCACCCCCCAGCCAAAAATAGCTCAGAATCTGCCATCCAGGCTGTATTAATGATTTATGTAAAGGCAGATG 2766  
 GTTTATTTCTACTTTGTAAAAGGAAAAAGTTGAGGTCTGGAAGGATAAATGATTGCTCATGAGACAAAATCAAGGTT 2845  
 AGAAGTTACATGGAATTGTAGGACCAGAGCCATATCATTAGATCAGCTTTCTGAAGAATATTCTCAAAAAAGAAAGTC 2924  
 TCCTTGGCCAGATAACTAAGAGGAATGTTTCATTGTATATCTTTTTTCTTGGAGATTTATATTAACATATTAAGTGCTC 3003  
 TGAGAAGTCTGTGATTATCTCTTGCTGCATAATAAATTATCCCCAACTTAAAAAAAAAAAAAAAAAAAAAACTCGA 3082  
 G 3083

FIG. 6B

06799910-021397